

4. (thrice amended) A recombinant DNA vector comprising the [DNA segment] cDNA according to any one of claims 25, 26, 27, 28, 29, 30, 31, 32 or 33.

5. (thrice amended) An *in vitro* culture of cells transformed with the [DNA] cDNA according to any one of claims 25, 26, 27, 28, 29, 30, 31, 32 or 33.

25. (twice amended) The [DNA] cDNA of claim [23] 26, wherein said polynucleotide is the cDNA insert contained in plasmid PHF1, deposited under ATCC accession No. 75058.

32. (amended) A cDNA TR4 according to claim 26 which does not contain a nucleotide sequence encoding a signal peptide and having the nucleotide sequence beginning at nucleotide 208 and ending at nucleotide 3406 as shown in Figure 3.

34. (amended) A substantially pure form of human type α -platelet derived growth factor receptor (α PDGFR) protein having a species with a molecular weight of about 180-185 kilodaltons and a species having a molecular weight of about 160 kilodaltons as determined by sodium dodecyl sulfate polyacrylamide gel and having the amino acid sequence selected from the group consisting of

- (a) amino acids 1-1089 of Figure 3; and
- (b) amino acids 24-1089 of Figure 3.